

#4

SEQUENCE LISTING

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Krutzsch, Henry C.
The United States of America,
as represented by The Secretary of the
Department of Health and Human Services

<120> Peptides and Their Utility in Modulation of Behavior of
Cells Expressing Alpha3Beta1 Integrins

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<150> US 60/144,549

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<160> 56

<170> PatentIn Ver. 2.1

<210> 1

<211> 17

<212> PRT

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<220>

<223> Description of Artificial Sequence:thrombospondin-1
(TSP-1) peptide 246

<400> 1

Lys	Arg	Phe	Lys	Gln	Asp	Gly	Gly	Trp	Ser	His	Trp	Ser	Pro	Trp	Ser
1				5				10						15	

Ser

<210> 2

<211> 8

<212> PRT

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<223> Description of Artificial Sequence:thrombospondin-1
(TSP-1) peptide 500

<400> 2

Asn	Gly	Val	Gln	Tyr	Arg	Asn	Cys
1			5				

<210> 3

<211> 19

<212> PRT

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<220>
<223> Description of Artificial Sequence:thrombospondin-1
(TSP-1) peptide Mal II

<400> 3
Ser Pro Trp Ser Ser Cys Ser Val Thr Cys Gly Asp Gly Val Ile Thr
1 5 10 15

Arg Ile Arg

<210> 4
<211> 10
<212> PRT
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<220>
<223> Description of Artificial Sequence:thrombospondin-1
(TSP-1) peptide 4N1K

-----<400> 4
Lys Arg Phe Tyr Val Val Met Trp Lys Lys
1 5 10

<210> 5
<211> 19
<212> PRT
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<220>
<223> Description of Artificial Sequence:thrombospondin-1
(TSP-1) peptide HepI

<400> 5
Glu Leu Thr Gly Ala Ala Arg Lys Gly Ser Gly Arg Arg Leu Val Lys
1 5 10 15

Gly Pro Asp

<210> 6
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:thrombospondin-1
(TSP-1) peptide 678

<400> 6
Phe Gln Gly Val Leu Gln Asn Val Arg Phe Val Phe
1 5 10

<210> 7
<211> 12
<212> PRT
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<220>
<223> Description of Artificial Sequence:thrombospondin-1
(TSP-1) peptide 701

<400> 7
Thr Pro Gly Gln Val Arg Thr Leu Trp His Asp Pro
1 5 10

<210> 8
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:murine laminin-1
A chain peptide GD6

<400> 8
Lys Gln Asn Cys Leu Ser Ser Arg Ala Ser Phe Arg Gly Cys Val Arg
1 5 10 15

Asn Leu Arg Leu Ser Arg
20

<210> 9
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:integrin
antagonist peptide

<400> 9
Gly Arg Gly Asp Ser Pro
1 5

<210> 10
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:control peptide
686

<400> 10
Phe Gln Gly Val Leu Gln Ala Val Arg Phe Val Phe
1 5 10

<210> 11
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:control peptide
690

<400> 11
Phe Gln Gly Val Leu Gln Asn Val Ala Phe Val Phe
1 5 10

<210> 12
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:laminin peptide
679

<400> 12
Phe Arg Gly Cys Val Arg Asn Leu Arg Leu Ser Arg
1 5 10

<210> 13
<211> 6
<212> PRT
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<220>
<223> Description of Artificial Sequence:R1 peptide

<400> 13
Phe Gln Gly Val Leu Gln
1 5

<210> 14
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:R1 peptide

<400> 14
Phe Ala Gly Val Leu Gln
1 5

<210> 15
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:R1 peptide

<400> 15
Phe Gln Gly Val Ala Gln
1 5

<210> 16
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:R1 peptide

<400> 16
Phe Gln Gly Val Leu Ala
1 5

<210> 17
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:R1 peptide

<400> 17
Phe Gln Gly Val Leu Asn
1 5

<210> 18
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:peptide 719
analog of thrombospondin-1 (TSP-1)

<400> 18
Phe Gln Gly Val Leu Gln Asn Leu Arg Phe Val Phe
1 5 10

<210> 19
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:peptide 718
analog of thrombospondin-1 (TSP-1)

<400> 19
Phe Gln Gly Val Leu Gln Asp Val Arg Phe Val Phe
1 5 10

<210> 20
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:peptide 717
analog of thrombospondin-1 (TSP-1)

<400> 20
Phe Gln Gly Val Leu Gln Gln Val Arg Phe Val Phe
1 5 10

<210> 21
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:peptide 705
analog of thrombospondin-1 (TSP-1)

<400> 21
Phe Gln Gly Val Leu Gln Ser Val Arg Phe Val Phe
1 5 10

<210> 22
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:peptide 704
analog of thrombospondin-1 (TSP-1)

<220>
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<222> (1)
<223> Xaa = N-acetyl glutamine

<400> 22
Xaa Gly Val Leu Gln Asn Val Arg Phe
1 5

<210> 23
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:peptide 702
analog of thrombospondin-1 (TSP-1)

<400> 23
Phe Gln Gly Val Leu Gln Asn Val Lys Phe Val Phe
1 5 10

<210> 24
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:peptide 698
analog of thrombospondin-1 (TSP-1)

<400> 24
Phe Gln Gly Val Leu Asn Asn Val Arg Phe Val Phe
1 5 10

<210> 25
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:peptide 697
analog of thrombospondin-1 (TSP-1)

<400> 25
Ala Gln Gly Val Leu Gln Asn Val Arg Phe Val Phe
1 5 10

<210> 26
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:peptide 696
analog of thrombospondin-1 (TSP-1)

<400> 26
Phe Ala Gly Val Leu Gln Asn Val Arg Phe Val Phe
1 5 10

<210> 27
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:peptide 695
analog of thrombospondin-1 (TSP-1)

<400> 27
Phe Gln Gly Val Ala Gln Asn Val Arg Phe Val Phe
1 5 10

<210> 28
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:peptide 693
analog of thrombospondin-1 (TSP-1)

<400> 28
 Phe Gln Gly Val Leu Gln Asn Val Arg Phe Val Ala
 1 5 10

<210> 29
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:peptide 687
 analog of thrombospondin-1 (TSP-1)

<400> 29
 Phe Gln Gly Val Leu Ala Asn Val Arg Phe Val Phe
 1 5 10

<210> 30
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:peptide 689
 analog of thrombospondin-1 (TSP-1)

<400> 30
 Phe Gln Gly Val Leu Gln Asn Val Arg Phe Val
 1 5 10

<210> 31
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:peptide 685
 analog of thrombospondin-1 (TSP-1)

<400> 31
 Gln Gly Val Leu Gln Asn Val Arg Phe Val Phe
 1 5 10

<210> 32
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:peptide 682
 analog of thrombospondin-1 (TSP-1)

<400> 32
 Phe Gln Gly Val Leu Gln Asn Val Arg Phe
 1 5 10

<210> 33
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:thrombospondin-1
(TSP-1) peptide (598-608)

<400> 33
Asn Cys Leu Pro Cys Pro Pro Arg Phe Thr Gly
1 5 10

<210> 34
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:thrombospondin-1
(TSP-1) peptide (188-199)

<400> 34
Asp Asn Phe Gln Gly Val Leu Gln Asn Val Arg Phe
1 5 10

<210> 35
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:thrombospondin-1
(TSP-1) peptide (392-405)

<400> 35
Asn Asn Arg Cys Glu Gly Ser Ser Val Gln Thr Arg Thr Cys
1 5 10

<210> 36
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:thrombospondin-1
(TSP-1) peptide (1059-1077)

<400> 36
Arg Asn Ala Leu Trp His Thr Gly Asn Thr Pro Gly Gln Val Arg Thr
1 5 10 15

Leu Trp His

<210> 37
 <211> 14
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence:type IV
 collagen peptide 674

 <400> 37
 Gly Glu Phe Tyr Phe Asp Leu Arg Leu Lys Gly Asp Lys Tyr
 1 5 10

<210> 38
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:peptide 681
 analog of thrombospondin-1 (TSP-1)

<220>
 <221> MOD_RES
 <222> (1)
 <223> Xaa = N-acetyl leucine

<220>
 <221> MOD_RES
 <222> (6)
 <223> Xaa = phenylalanine carboxamide

<400> 38
 Xaa Leu Gln Asn Val Arg Phe Xaa
 1 5

<210> 39
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:peptide 683
 analog of thrombospondin-1 (TSP-1)

<400> 39
 Gln Gly Val Leu Gln Asn Val Arg
 1 5

<210> 40
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:peptide 684
 analog of thrombospondin-1 (TSP-1)

<400> 40
Leu Gln Asn Val Arg Phe Val Phe
1 5

<210> 41
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:peptide 688
analog of thrombospondin-1 (TSP-1)

<400> 41
Val Leu Gln Asn Val Arg Phe Val Phe
1 5

<210> 42
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:peptide 691
analog of thrombospondin-1 (TSP-1)

<400> 42
Phe Gln Gly Val Leu Gln Asn Ala Arg Phe Val Phe
1 5 10

<210> 43
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:peptide 692
analog of thrombospondin-1 (TSP-1)

<400> 43
Phe Gln Gly Val Leu Gln Asn Val Arg Ala Val Phe
1 5 10

<210> 44
<211> 12
<212> PRT
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<220>
<223> Description of Artificial Sequence:peptide 694
analog of thrombospondin-1 (TSP-1)

<400> 44
Phe Gln Gly Val Leu Gln Asn Val His Phe Val Phe
1 5 10

<210> 45
<211> 12
<212> PRT
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<220>
<223> Description of Artificial Sequence:peptide 703
analog of thrombospondin-1 (TSP-1)

<400> 45
Phe Gln Gly Val Leu Gln Asn Val Gln Phe Val Phe
1 5 10

<210> 46
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:peptide 716
analog of thrombospondin-1 (TSP-1)

<221> MOD_RES
<222> (1)
<223> Xaa = carboxamidomethyl-thiopropionyl
phenylalanine

<400> 46
Xaa Gln Gly Val Leu Gln Asn Val Arg Phe Val Phe
1 5 10

<210> 47
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:peptide 701
context surrounding Arg

<400> 47
Gln Val Arg Thr
1

<210> 48
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:entactin
region related sequence

<400> 48
Phe Ser Gly Ile Asp Glu His Gly His Leu Thr Ile
1 5 10

<210> 49
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:entactin domain
NXR sequence

<400> 49
Asn Asn Arg His
1

<210> 50
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:entactin domain
NXR sequence

<400> 50
Asn Gly Arg Gln
1

<210> 51
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:consensus
sequence

<400> 51
Asn Val Arg Phe
1

<210> 52
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:X-1-X-2-X-3-X-4
peptide

<400> 52
Ser Val Arg Phe
1

<210> 53
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:X-1-X-2-X-3-X-4
peptide

<400> 53
Gln Val Arg Phe
1

<210> 54
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:X-1-X-2-X-3-X-4
peptide

<400> 54
Asp Val Arg Phe
1

<210> 55
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:X-1-X-2-X-3-X-4
peptide

<400> 55
Asn Leu Arg Phe
1

<210> 56
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:thrombospondin-1
(TSP-1) peptide

<400> 56
Leu Gln Asn Val Arg Phe
1 5